

# ENHANCED ENGLISH ABSTRACT FOR DE3029307

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**Derwent Accession :**

1982-17945E [10]

**Title :**

Blood substitute with oxygen transport properties produced by coupling of a polysaccharide e.g. dextran with cell-free haemoglobin

**Derwent Class :**

B04

**Patent Assignee :**

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**Nbr of Patents :**

2

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1

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**Priority Number :**

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A61K-031/40; A61K-031/715; A61K-047/48

**Advanced IPC (V8) :**

A61K-031/40 [2006-01 A - I R - -]; A61K-031/715 [2006-01 A - I R - -];

A61K-047/48 [2006-01 A - I R - -]

**Core IPC (V8) :**

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**EPO Class Codes :**

A61K-031/40; A61K-031/715; A61K-047/48K8

**Abstract :**

DE3029307 A

Haemoglobin-contg. blood substitutes of the formula M-R1-B-R2-Hb (I) in which the cell-free haemoglobin Hb is linked via reactive groups R1 and R2 and a bridging ligand B with a polysaccharide M are new. In the formula, B is an opt. mono- or polysubst. 3-14C aliphatic group, or a cycloalkyl or aryl group with up to 14C atoms; and R1 and R2 are -O-, -NH-, -N-, -S-, -S(CH2)-, -N-(CH2)m-NH-, -NH-(CH2)m-NH-, -N-(CH2)m-N-, or a carboxy or hydrazide group, m is 1 to 14). Since the blood substitute has oxygen-transporting properties, it can be used in cases of haemorrhagic shock where the extent of blood loss is such that erythrocyte-free transfusions cannot be used safely. The new product has a long half-life in the body, and has oxygen-transport properties approximating those of natural haemoglobin.

**Manual Codes :**

CPI: B04-B04D B12-H06

**Update Basic :**

1982-10

**Update Equiv. :**

1989-49